

## CLAIMS

What is claimed is:

1           1.     A storage area network (SAN) management system for a  
2 computer network including at least one SAN, comprising:  
3                 a SAN including a plurality of devices;  
4                 a computer that communicates with said SAN;  
5                 a SAN manager associated with said computer; and  
6                 a storage area mapping (SAM) module associated with said  
7 SAN manager that graphically represents said devices of said SAN and  
8 links between said devices, wherein said SAM module allows at least  
9 one of adding a link between said devices, removing a link between  
10 said devices and moving a link between said devices.

1           2.     The SAN management system of claim 1 further comprising a  
2 discovery module associated with said SAN module that automatically  
3 discovers said devices and said links of said SAN.

1           3.     The SAN management system of claim 2 wherein said SAM  
2 module generates a window with a tree list panel and a map panel.

1           4.     The SAN management system of claim 3 wherein said map  
2 panel includes a tool bar with a plurality of icons, a first display area and a  
3 second display area.

1           5.     The SAN management system of claim 4 wherein said SAM  
2 module displays a map of said devices with defined links in said first display  
3 area and said devices with undefined links in said second display area.

1           6.     The SAN management system of claim 1 wherein said computer  
2 includes a pointing device and wherein said SAM module provides link details  
3 of a first link when a cursor is positioned over said first link for a first  
4 predetermined period, and wherein said SAM module provides device details

5 of a first device when a cursor is positioned over said first device for a second  
6 predetermined period.

1 7. The SAN management system of claim 1 wherein said SAM  
2 module displays a device type of said devices using shapes and a device  
3 status of said devices using color.

1 8. The SAN management system of claim 1 wherein said SAM  
2 module displays link types of said links using line segment types and link  
3 status of said links using color.

1 9. The SAN management system of claim 1 wherein said SAM  
2 module allows an operator to associate a discovered device with an inferred  
3 hub.

1 10. A method for managing a storage area network (SAN),  
2 comprising:  
3 connecting a SAN including a plurality of devices to a computer;  
4 providing a SAN manager that is associated with a storage area  
5 mapping (SAM) module;  
6 graphically representing said devices of said SAN and links  
7 between said devices of said SAN using said SAM module; and  
8 allowing at least one of adding a link between said devices,  
9 removing a link between said devices and moving a link between said  
10 devices.

1 11. The method of claim 10 further comprising automatically  
2 discovering said devices and said links of said SAN using a discovery module  
3 that is associated with said SAN manager.

1 12. The method of claim 11 further comprising generating a window  
2 with a tree list panel of said SANs and said devices that are associated with  
3 said computer and a map panel.

1           13.    The method of claim 12 further comprising providing a tool bar  
2 including a plurality of icons, a first display area and a second display area on  
3 said map panel.

1           14.    The method of claim 13 further comprising:  
2                displaying a map of said devices with defined links in said first  
3 display area; and  
4                displaying said devices with undefined links in said second  
5 display area.

1           15.    The method of claim 10 further comprising:  
2                providing a pointing device;  
3                generating link details of a first link when a cursor is positioned  
4 over said first link for a first predetermined period; and  
5                generating device details of a first device when a cursor is  
6 positioned over said first device for a second predetermined period.

1           16.    The method of claim 10 further comprising:  
2                displaying a device type of said devices using shapes; and  
3                displaying a device status of said devices using color.

1           17.    The method of claim 10 further comprising:  
2                displaying a link type of said links using line segments types;  
3 and  
4                displaying a link status of said links using color.

1           18.    The method of claim 10 further comprising allowing an operator  
2 to associate a discovered device with an inferred hub.

1           19.    A storage area network (SAN) management system for a  
2 computer network including at least one SAN, comprising:  
3                a SAN including a plurality of devices;  
4                a computer that communicates with said SAN; and  
5                a SAN manager associated with said computer;

6 a discovery module associated with said SAN manager that  
7 automatically discovers said devices and said links of said SAN; and  
8 a storage area mapping (SAM) module associated with said  
9 SAN manager that graphically represents said devices of said SAN and  
10 said links between said devices,  
11 wherein said SAM module allows at least one of adding a link  
12 between said devices, removing a link between said devices and  
13 moving a link between said devices.

1 20. The SAN management system of claim 19 wherein said SAM  
2 module allows an operator to associate a discovered device with an inferred  
3 hub.